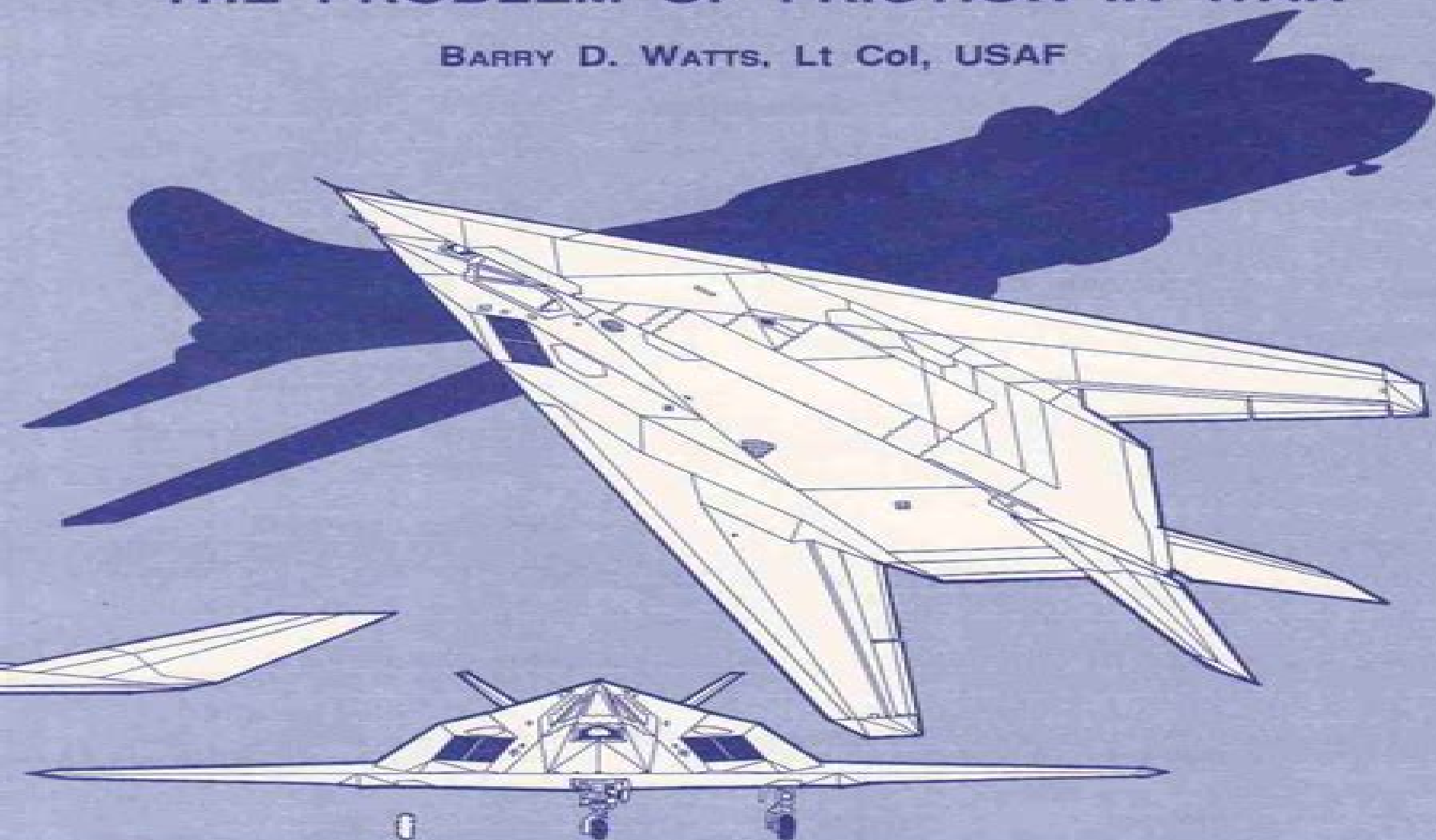


# THE FOUNDATIONS OF U.S. AIR DOCTRINE

THE PROBLEM OF FRICTION IN WAR

BARRY D. WATTS, Lt Col, USAF



# The Foundations Of Us Air Doctrine The Problem Of Friction In War

**Mark J. Conversino**



## **The Foundations Of US Air Doctrine The Problem Of Friction In War:**

The Foundations of US Air Doctrine Barry D. Watts, 1985 This study analyzes airpower doctrine from the viewpoint of Clausewitzian friction The study concludes that American airpower doctrine has changed very little since the 1930s and that it is fundamentally flawed

The Foundations of U.S. Air Doctrine Barry D. Watts, 2001-09-01 *The foundations of US air doctrine* Barry D. Watts, 1984 *The Dynamics of Military Revolution, 1300-2050* MacGregor Knox, Williamson Murray, 2001-08-27 The Dynamics of Military Revolution aims to bridge a major gap in the emerging literature on revolutions in military affairs suggesting that there have been two very different phenomena at work over the past centuries military revolutions which are driven by vast social and political changes and revolutions in military affairs which military institutions have directed although usually with great difficulty and ambiguous results By providing both a conceptual framework and a historical context for thinking about revolutionary changes in military affairs the work establishes a baseline for understanding the patterns of change innovation and adaptation that have marked war in the Western World since the thirteenth century beginning with Edward III's revolutionary changes in medieval warfare through the development of modern Western military institutions in seventeenth century France to the cataclysmic changes of the First World War and the German Blitzkrieg victories of 1940 This history provides a guide for thinking about military revolutions in the coming century which are as inevitable as they are difficult to predict

**The Foundations of U.S. Air Doctrine** Air University Press, U. S. Military, Department of Defense (DoD), Barry D. Watts, U. S. Air Force (USAF), 2017-12-10 This study revolves around friction meaning the ubiquitous uncertainties and inescapable difficulties that form the atmosphere of real war More specifically it attempts to utilize the Clausewitzian concept of general friction as a basis for assessing and if necessary reshaping the foundations of US air doctrine This critical application of friction gives rise to four primary conclusions 1 The key assumptions underlying mainstream US doctrine for conventional air warfare have not evolved appreciably since Air Corps Tactical School ACTS theorists elaborated their theory of precision industrial bombardment during the 1930s 2 Judged by their essential premises and logic post Hiroshima theories of deterrence are little more than an updating for the nuclear age of ACTS bombardment doctrine 3 Both ACTS bombardment doctrine and deterrence theory appear fundamentally flawed insofar as they omit the frictional considerations that distinguish real war from war on paper 4 Reflection upon the extent to which friction pervades the elemental processes of actual combat suggests that the range of situations in which greater numbers or superior weapons guarantee victory is relatively limited even in the age of thermonuclear weapons the outcomes of battles still turn more often than not on the character and intelligence of a few brave individuals The first step in giving substance to these claims is to explain what the central beliefs of US airmen traditionally have been The reader should be warned however that I have approached the writings on war of airmen like Major General Haywood S Hansell Jr and nuclear strategists like Bernard Brodie as well as those of Carl von Clausewitz himself from the perspective of two interrelated

questions What overriding assumptions about war did these individuals embrace And what image of war as a total phenomenon is bound up in their assumptions In large part answering these questions is a matter of historical inquiry and to be candid I have been far less concerned with writing history for its own sake than with using the past to illuminate the problems of the present I therefore leave it to the reader to judge whether I have managed to do so without injuring the historical record Contents 1 INTRODUCTION Notes 2 DOUHET AND MITCHELL Douhet s Image of War Unrestrained Offense Mitchell s Aerial Knights Notes 3 THE FIRST US STRATEGIC AIR WAR PLAN Daylight High Altitude Precision Bombardment Doctrine AWPD 1 The Image of War in AWPD 1 Notes 4 THE POLICY AND STRATEGY OF DETERRENCE Brodie s Assumptions Brodie s Image of All Out War in the Missile Age A Paradox of Deterrence Theory Notes 5 A CLAUSEWITZIAN CRITIQUE The Core Beliefs of Mainstream US Air Doctrine Some Ramifications Friction Collective Risk Notes 6 FRICTION IN 20TH CENTURY WARFARE Part 1 Friction in the Combined Bomber Offensive World War II Weather October 1943 Information Doctrinal Rigidity Enemy Countermeasures Big Week and the Problem of Industrial Impact Assessments March and April 1944 Friction as a Weapon Epilogue in Korea Railway Interdiction August 1951 May 1952 Part 2 Friction in the Missile Age The Not So Delicate Balance of Terror The Emergence of Friction in Brodie s Thought The Cuban Missile Crisis Notes 7 TOWARD A LESS MECHANISTIC IMAGE OF WAR US Air Doctrine and Laplacian Determinism Cartesian Hypotheses Uncertainty Undecidability The Human Cost of War Combat Psychology as Context Some Consequences of Embracing a More Organic Image of War Learning from History Nurturing Military Genius Exemplars for Future Wars Friction as a Weapon and Entropy Summing Up Notes APPENDIX General Eaker s Presentation of the Combined Bomber Offensive Plan to the Joint Chiefs of Staff SELECTED BIBLIOGRAPHY *AU Press, Your Air and Space Power Publisher, 2003* ,2003 *Case studies in the achievement of air superiority* , **Case Studies in the Achievement of Air Superiority** Benjamin Franklin Cooling (III),1994 *How Wars Are Won and Lost* John A. Gentry,2011-11-10 This provocative book seeks to answer a most crucial and embarrassing question concerning the U S military why the United States is so often stymied in military confrontations with seemingly weaker opponents despite its superpower status This fascinating book examines a question that continues to puzzle soldiers statesmen and scholars why do major powers including the ostensible superpower United States repeatedly perform poorly against seemingly overmatched adversaries And what can they and the United States do to better achieve their military objectives *How Wars are Won and Lost Vulnerability and Military Power* argues that beyond relying solely on overwhelming military might the United States needs to focus more on exploiting weaknesses in their adversaries such as national will resource mobilization and strategic miscues just as opposing forces have done to gain advantage over our military efforts The author tests the vulnerability theory by revisiting six conflicts from the Philippine War of 1899 1902 to the ongoing actions in Iraq and Afghanistan showing again and again that victory often depends more on outthinking the enemy than outmuscling them *The Technology, Strategy,*

And Politics Of Sdi Stephen J Cimbala, 2019-06-25 The Strategic Defense Initiative SDI to develop a ballistic missile defense BMD system has both short range and long range risks as well as potential benefits For the most part however strategic technological and political issues relevant to SDI have been analyzed in isolation from one another This book provides a more inclusive framework for assessing the possible development and deployment of a BMD system by the United States or the Soviet Union Contributors discuss the risks for arms race stability probable reactions of the Soviet Union to any U S space based defense system and implications for the stability of extended deterrence commitments to NATO European allies They also evaluate Soviet research and development programs in missile defense that must be considered in any extrapolation of the requirements for U S deterrence in the next several decades

**Fighting with the Soviets** Mark J. Conversino, 1997 Conversino's story is as interesting as it is unfamiliar and succeeds in opening up Frantic's many dimensions including the personal as well as the political strategic and operational His revelations regarding the interactions between American servicemen and Ukrainian Russians are especially valuable and underscore the immense difficulties of implementing alliances at the grass roots level Dennis Showalter author of Tannenberg Clash of Empires

**Reader's Guide to Military History** Charles Messenger, 2013-10-31 This book contains some 600 entries on a range of topics from ancient Chinese warfare to late 20th century intervention operations Designed for a wide variety of users it encompasses general reviews of aspects of military organization and science as well as specific wars and conflicts The book examines naval and air warfare as well as significant individuals including commanders theorists and war leaders Each entry includes a listing of additional publications on the topic accompanied by an article discussing these publications with reference to their particular emphases strengths and limitations

Air University Press publications 2004 Air University (U.S.). Press, 2004

**Newsletter**, 1992

**MacArthur's Airman** Thomas E. Griffith, 1998 Thomas Griffith offers a critical assessment of George C Kenney's numerous contributions to MacArthur's war efforts He depicts Kenney as a staunch proponent of airpower's ability to shape the outcome of military engagement and a commander who shared MacArthur's strategic vision

*The Conduct of the Air War in the Second World War* Horst Boog, 1992 Leading experts examine the air war in the context of modern industrialised societies and compare the different ways in which it was conducted by the main air powers They demonstrate that the relationship between civilians and the military had as much impact on the conduct of the air war as the leadership The authors cover a wide spectrum and focus on topics such as air war and foreign and domestic policies top echelon command and leadership strategic planning air armament and war economy operations and logistics intelligence and reconnaissance and air war humanity and international law

*Airpower Journal*, 1989

Carl A. Spaatz and the Air War in Europe Richard G. Davis, 1993 This is the first detailed examination of the career of the highest ranking U S Army Air Forces officer in Europe during World War II

**John Boyd and John Warden** David S. Fadok, 1995 Colonels John Boyd and John Warden have contributed to the evolution of airpower theory through their respective works on strategic paralysis Boyd's thoughts on

strategic paralysis are process oriented and aim at psychological incapacitation. He speaks of folding an opponent back inside himself by operating inside his observation orientation decision action OODA loop. His theory of conflict is Clausewitzian, emphasizing the mental and moral spheres of conflict, and he considers it important to teach the genius of war. Major Fadok describes Warden's theory as form oriented and aiming at physical paralysis. This theory is Jominian in the sense that it is important to teach warriors how to act, that is to teach the principles of war. Major Fadok concludes that strategic paralysis theory has moved from an early emphasis on targeting war supporting industry to a current emphasis on war supporting command to a future emphasis on war supporting information.      *Tactical Dispersal of Fighter Aircraft* John M. Halliday, Rand Corporation, 1987. This Note examines U S Air Force policy on the basing of tactical fighter aircraft. Specifically, it addresses the risks of losses to both aircraft and sorties that are implicitly accepted by commanders and policymakers when they base fighters within range of potential attackers. It also deals with one potential alternative to the current static basing mode: tactical dispersal, and with the organizational impediments to it. The author applies the concepts of risk and uncertainty to plausible attack scenarios for main operating bases and dispersed sites, and he discusses policy issues that must be addressed if high sortie rates are to be sustained during the early days of a conflict. He recommends that a program be designed to empirically test the assumptions used in the models for evaluating basing policy. Keywords: Air Force facilities, Tactical analyses, Fighter aircraft, Risk, Probability, sdw.

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